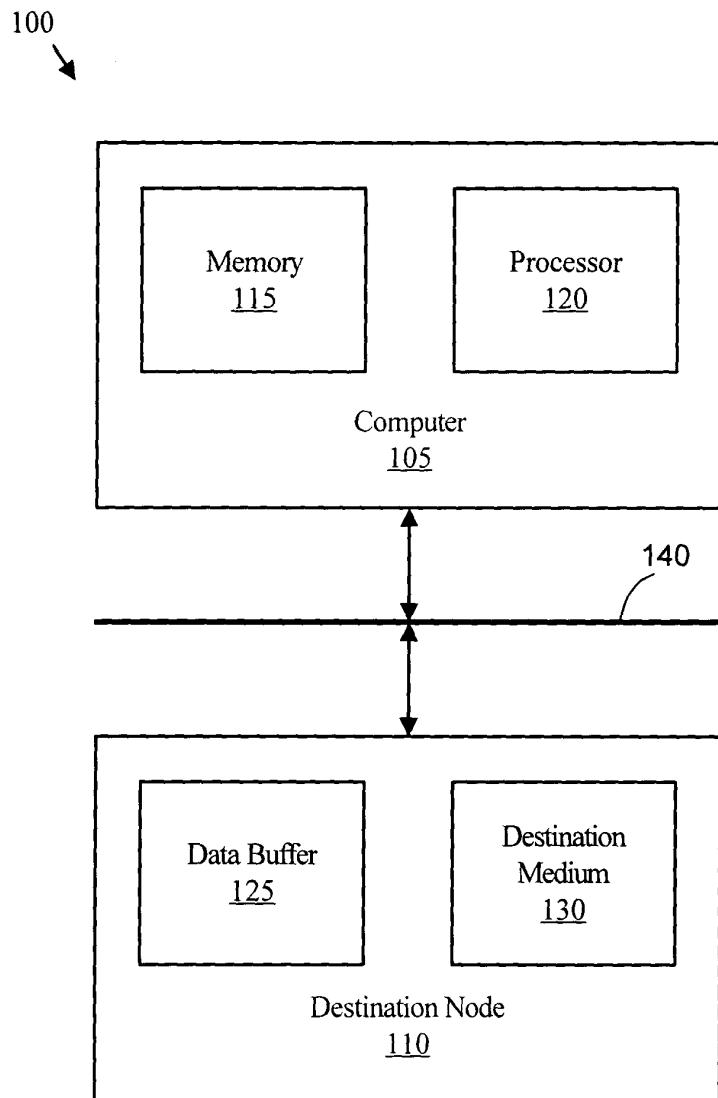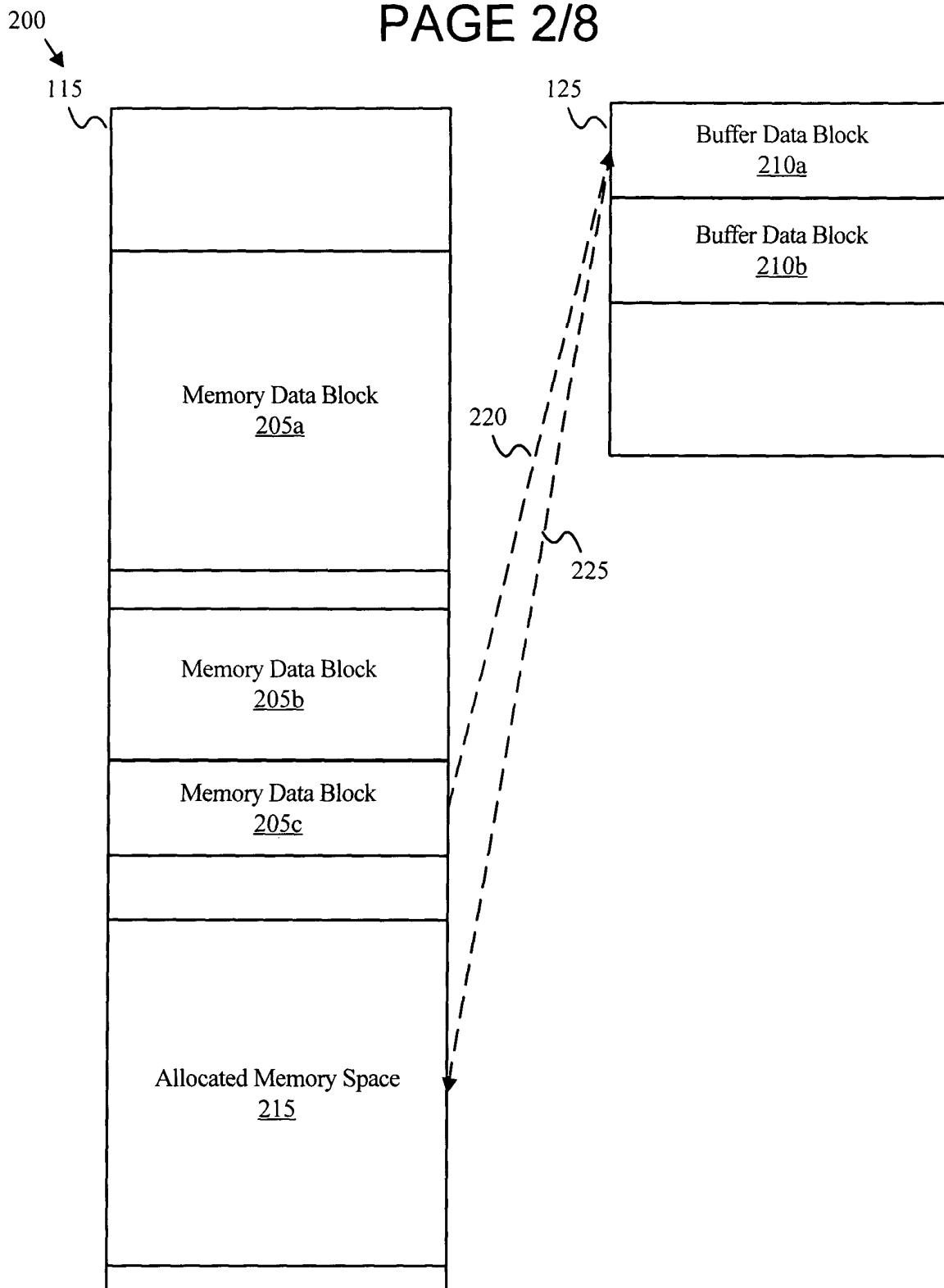APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
Ralph T. Beeston et al.
IBM Docket No.: TUC920030086US1
Kunzler & Associates Docket No.: 1500.2.21 (DMC)
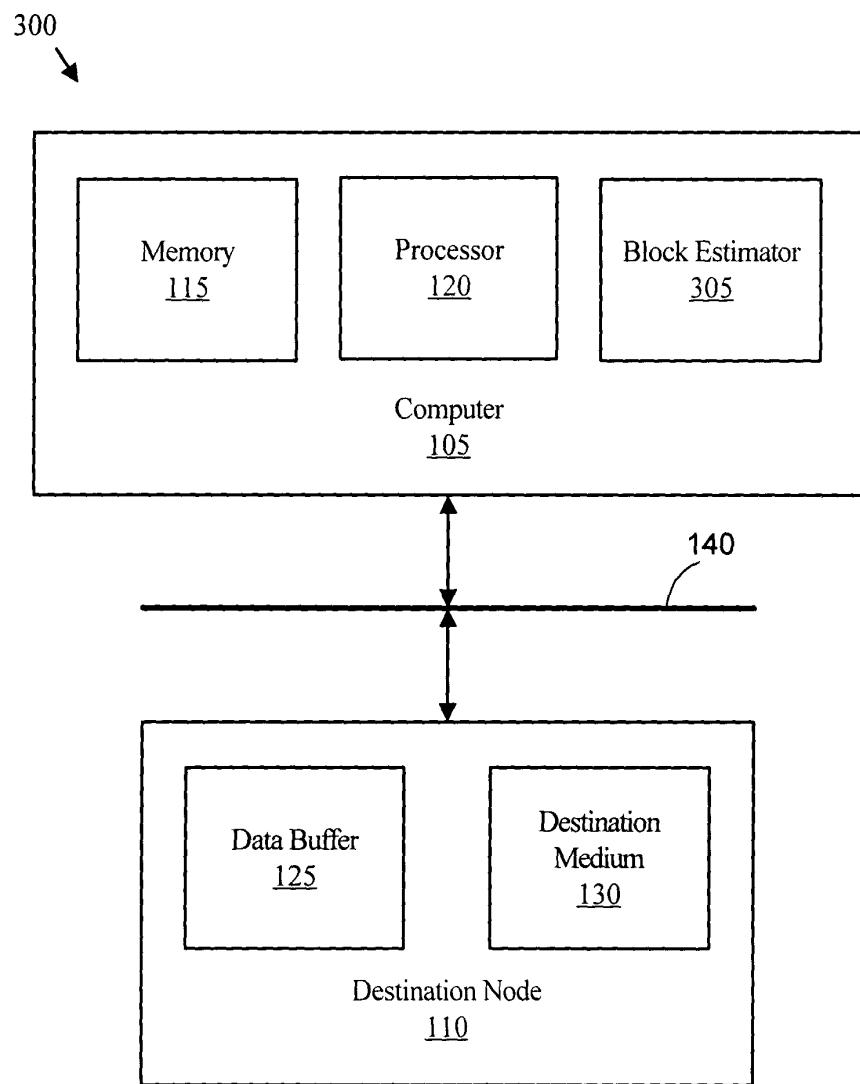
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100


```
┌─────────────────────────────────────────┐
│   ┌──────────────┐    ┌──────────────┐   │
│   │   Memory     │    │  Processor   │   │
│   │    115       │    │    120       │   │
│   └──────────────┘    └──────────────┘   │
│                Computer                  │
│                  105                     │
└─────────────────────────────────────────┘
```

140

```
┌─────────────────────────────────────────┐
│   ┌──────────────┐    ┌──────────────┐   │
│   │ Data Buffer  │    │ Destination  │   │
│   │    125       │    │   Medium     │   │
│   │              │    │    130       │   │
│   └──────────────┘    └──────────────┘   │
│             Destination Node             │
│                  110                     │
└─────────────────────────────────────────┘
```

(Prior Art)

FIG. 1

APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
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200

115

125

Buffer Data Block
210a

Buffer Data Block
210b

Memory Data Block
205a

220

225

Memory Data Block
205b

Memory Data Block
205c

Allocated Memory Space
215

(Prior Art)

FIG. 2

APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
Ralph T. Beeston et al.
IBM Docket No.: TUC920030086US1
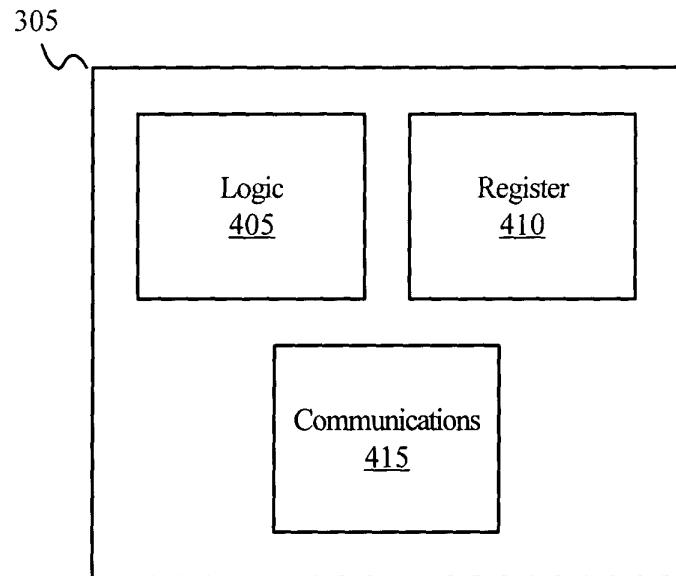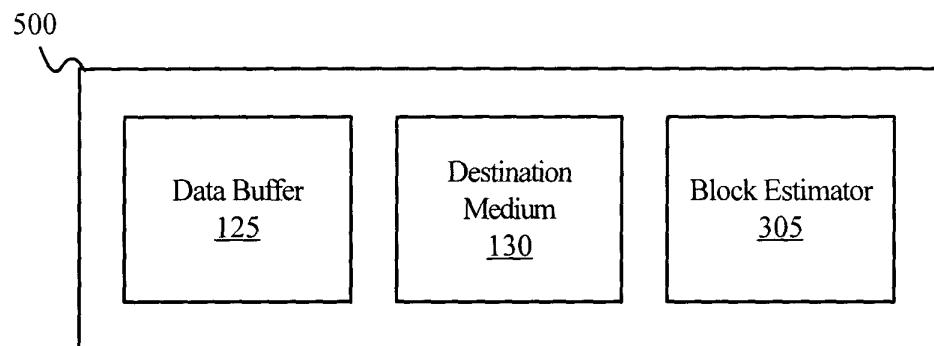Kunzler & Associates Docket No.: 1500.2.21 (DMC)

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300

Computer 105		
Memory 115	Processor 120	Block Estimator 305

140

Destination Node 110	
Data Buffer 125	Destination Medium 130

FIG. 3

APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
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Logic
405

Register
410

Communications
415

FIG. 4

500

Data Buffer
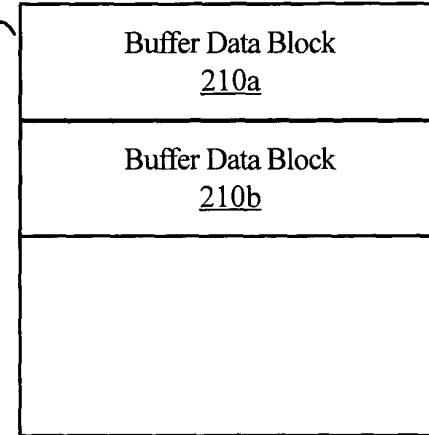125

Destination
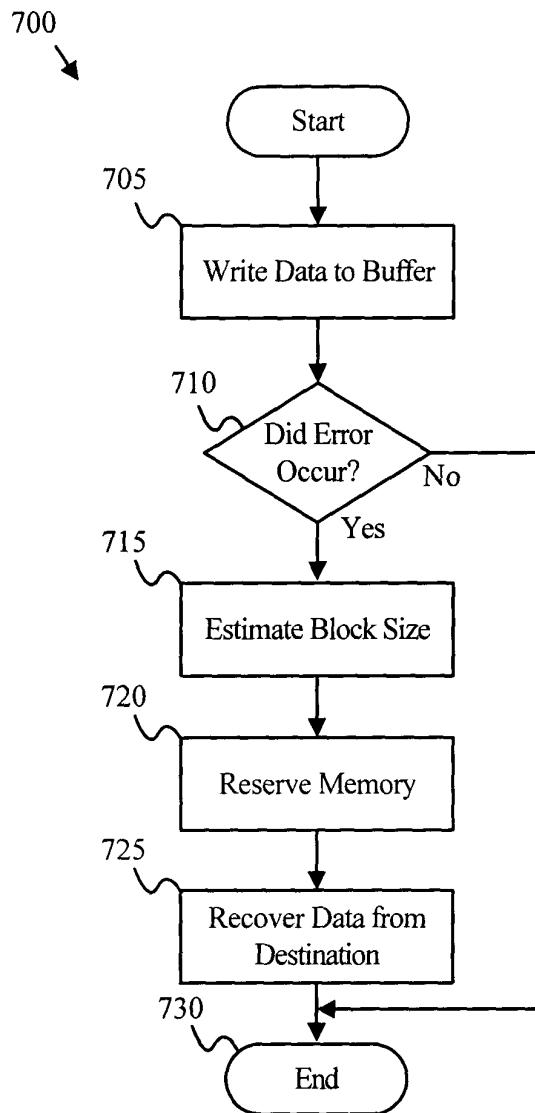Medium
130

Block Estimator
305

FIG. 5

APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
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600

115

Memory Data Block
205a

Memory Data Block
205b

Memory Data Block
205c

Allocated Memory Space
605a

Allocated Memory Space
605b

125

Buffer Data Block
210a

Buffer Data Block
210b
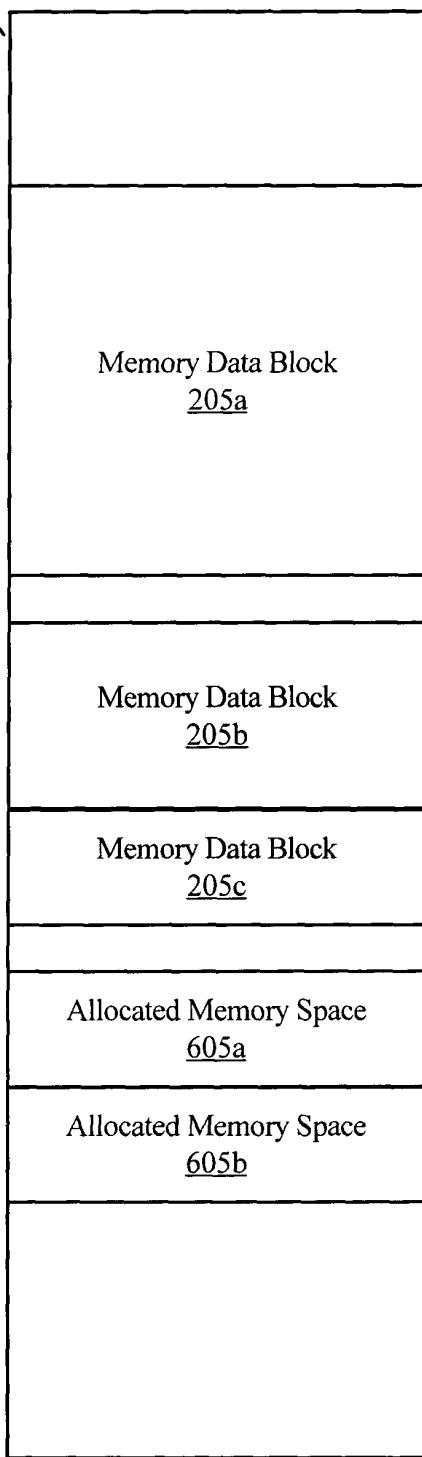
FIG. 6

APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
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Kunzler & Associates Docket No.: 1500.2.21 (DMC)

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700

Start

705

Write Data to Buffer

710

Did Error Occur?

No

Yes

715

Estimate Block Size

720

Reserve Memory

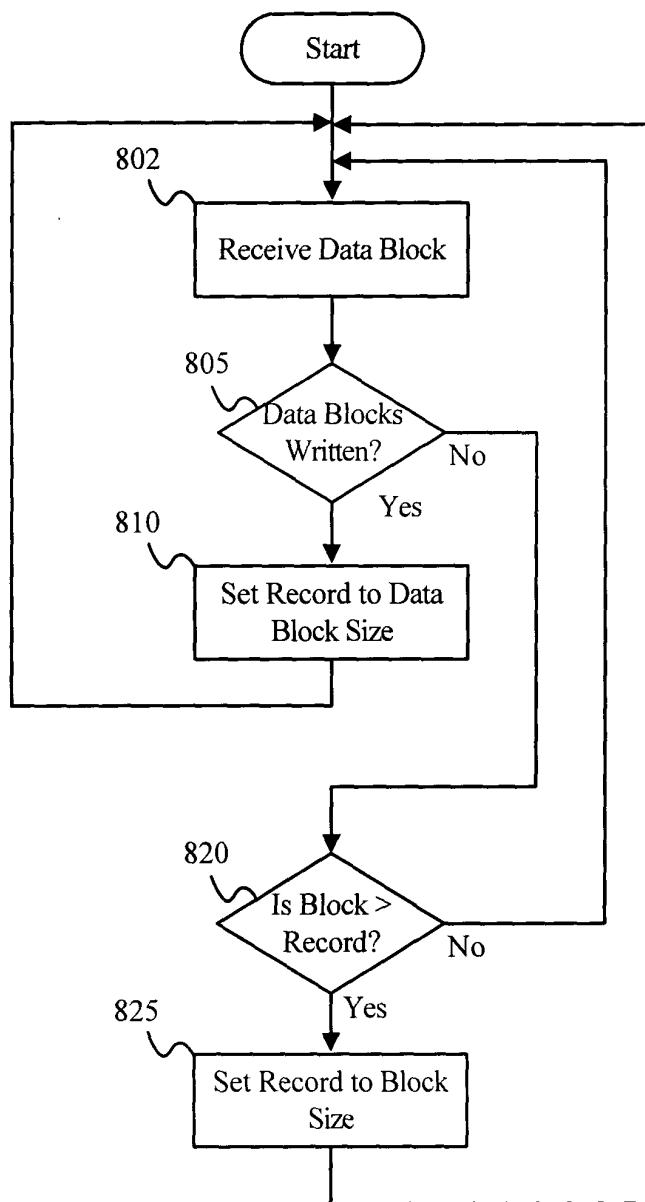725

Recover Data from Destination

730

End

FIG. 7

APPARATUS, SYSTEM, AND METHOD TO ESTIMATE MEMORY FOR RECOVERING DATA
Ralph T. Beeston et al.
IBM Docket No.: TUC920030086US1
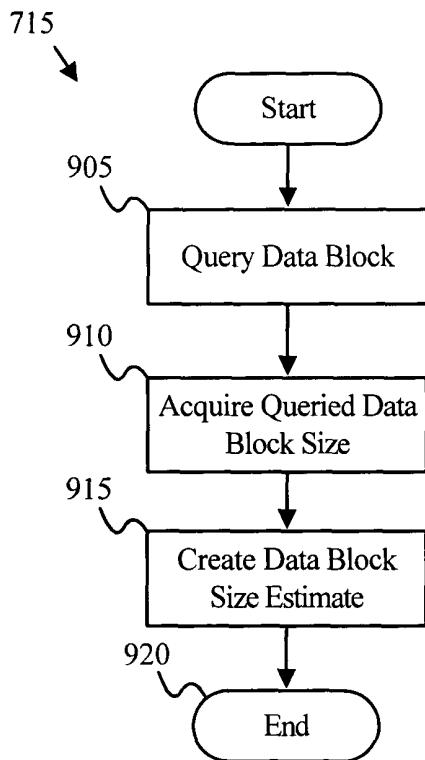Kunzler & Associates Docket No.: 1500.2.21 (DMC)

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800

Start

802 Receive Data Block

805 Data Blocks Written?

No

Yes

810 Set Record to Data Block Size

820 Is Block > Record?

No

Yes

825 Set Record to Block Size

FIG. 8

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715

Start

905

Query Data Block

910

Acquire Queried Data
Block Size

915

Create Data Block
Size Estimate

920

End

FIG. 9